

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A system comprising:

an interface of a target application in a device, the interface comprising a plurality of operations to be selected by a user;

a monitoring unit configured to monitor data of selecting of the plurality of operations of the interface by the user, and to generate a log of the monitored data, the log of the monitored data being in a form of a map mapping each of key data in a key portion of the map to respective value data in a corresponding value data portion;

a communicating unit configured to receive the log of the monitored data, and to communicate the log of the monitored data, and

wherein the monitoring unit and communicating unit ~~reside~~ are self-contained in the device, and wherein the target application is self-contained in the device prior to any initial external communication connection by the communication unit, and the monitoring unit is configured to generate the log of the monitored data without any initial external communication connection ~~to a destination to receive the log of the monitored data from by~~ the communicating unit.

Claim 2 (Original): A system according to Claim 1, wherein the target application is a software application and the interface is a display screen of the software application.

Claim 3 (Original): A system according to Claim 1, wherein the target application is an image forming device and the interface is an operation panel of the image forming device.

Claim 4 (Original): A system according to Claim 1, wherein the target application is an appliance and the interface is an operation panel of the appliance.

Claim 5 (Original): A system according to Claim 1, wherein the communicating unit sends the log of the monitored data when the user exits the target application.

Claim 6 (Original): A system according to Claim 1, further comprising a setting unit configured to set a number of sessions of the target application to be executed by the user prior to the communicating unit communicating the log of the monitored data.

Claim 7 (Original): A system according to Claim 1, wherein the key data and the value data in the map both contain string data.

Claim 8 (Previously Presented): A system according to Claim 7, wherein the value data portion includes plural vectors in which each vector includes an array of strings.

Claim 9 (Original): A system according to any one of Claims 1-8, wherein the communicating unit communicates the log of the monitored data by Internet mail.

Claim 10 (Currently Amended): A system comprising:  
interface means of a target application means in a device, the interface means for providing a plurality of operations to be selected by a user;  
monitoring means for monitoring data of selecting of the plurality of operations of the interface means by the user, and for generating a log of the monitored data, the log of the

monitored data being in a form of a map mapping each of key data in a key portion of the map to respective value data in a corresponding value data portion;

communicating means for receiving the log of the monitored data, and for communicating the log of the monitored data, and

wherein the monitoring means and communicating means ~~reside~~ are self-contained in the device, and wherein the target application is self-contained in the device prior to any initial external communication connection by the communicating means, and the monitoring means generates the log of the monitored data without any initial external communication connection to a destination to receive the log of the monitored data from by the communicating means.

Claim 11 (Original): A system according to Claim 10, wherein the target application means is a software application and the interface means is a display screen of the software application.

Claim 12 (Original): A system according to Claim 10, wherein the target application means is an image forming device and the interface means is an operation panel of the image forming device.

Claim 13 (Original): A system according to Claim 10, wherein the target application means is an appliance and the interface means is an operation panel of the appliance.

Claim 14 (Original): A system according to Claim 10, wherein the communicating means sends the log of the monitored data when the user exits the target application means.

Claim 15 (Original): A system according to Claim 10, further comprising a setting means for setting a number of sessions of the target application means to be executed by the user prior to the communicating means communicating the log of the monitored data.

Claim 16 (Original): A system according to Claim 10, wherein the key data and the value data in the map both contain string data.

Claim 17 (Previously Presented): A system according to Claim 16, wherein the value data portion includes plural vectors in which each vector includes an array of strings.

Claim 18 (Original): A system according to any one of Claims 10-17, wherein the communicating means communicates the log of the monitored data by Internet mail.

Claim 19 (Currently Amended): A method of monitoring usage of an interface of a target application in a device, the interface including a plurality of operations to be selected by a user, comprising the steps of:

monitoring data of selecting of the plurality of operations of the interface by the user;  
generating a log of the monitored data, the log of the monitored data being in a form of a map mapping each of key data in a key portion of the map to respective value data in a corresponding value data portion; and

receiving the log of the monitored data, and communicating the log of the monitored data to a communication unit, and

wherein the monitoring and generating steps are performed in the device and are performed without any initial external communication connection ~~to a destination to receive the log of the monitored data from~~ by the communicating unit, and the target application is

self-contained in the device prior to any initial external communication connection by the communication unit.

Claim 20 (Original): A method according to Claim 19, wherein the target application is a software application and the interface is a display screen of the software application.

Claim 21 (Original): A method according to Claim 19, wherein the target application is an image forming device and the interface is an operation panel of the image forming device.

Claim 22 (Original): A method according to Claim 19, wherein the target application is an appliance and the interface is an operation panel of the appliance.

Claim 23 (Original): A method according to Claim 19, wherein the communicating step sends the log of the monitored data when the user exits the target application.

Claim 24 (Original): A method according to Claim 19, further comprising a step of setting a number of sessions of the target application to be executed by the user prior to the communicating device communicating the log of the monitored data.

Claim 25 (Original): A system according to Claim 19, wherein the key data and the value data in the map both contain string data.

Claim 26 (Previously Presented): A system according to Claim 25, wherein the value data portion includes plural vectors in which each vector includes an array of strings.

Claim 27 (Original): A method according to any one of Claims 19-26, wherein the communicating step communicates the log of the monitored data by Internet mail.

Claim 28 (Currently Amended): A computer program product comprising:  
a computer storage medium and a computer program code mechanism embedded in the computer storage medium for causing a computer to monitor a user's usage of an interface of a target application in a device, the interface comprising a plurality of operations to be selected by a user, comprising:

a first computer code device configured to monitor data of selecting of the plurality of operations of the interface by the user, and configured to generate a log of the monitored data, the log of the monitored data being in a form of a map mapping each of key data in a key portion of the map to respective value data in a corresponding value data portion;

a second computer code device configured to receive the log of the monitored data, and to communicate the log of the monitored data to a communication unit, and

wherein the first computer program code executes the monitoring and generating in the device and without any initial external communication connection ~~to a destination to receive the log of the monitored data from~~ by the communicating unit, and the target application is self-contained in the device prior to any initial external communication connection by the communication unit.

Claim 29 (Original): A computer program product according to Claim 28, wherein the target application is a software application and the interface is a display screen of the software application.

Claim 30 (Original): A computer program product according to Claim 28, wherein the target application is an image forming device and the interface is an operation panel of the image forming device.

Claim 31 (Original): A computer program product according to Claim 28, wherein the target application is an appliance and the interface is an operation panel of the appliance.

Claim 32 (Original): A computer program product according to Claim 28, wherein the second computer code device is further configured to send the log of the monitored data when the user exits the target application.

Claim 33 (Original): A computer program product according to Claim 28, further comprising a third computer code device configured to set a number of sessions of the target application to be executed by the user prior to the second computer code device communicating the log of the monitored data.

Claim 34 (Original): A computer program product according to Claim 28, wherein the key data and the value data in the map both contain string data.

Claim 35 (Previously Presented): A system according to Claim 24, wherein the value data portion includes plural vectors in which each vector includes an array of strings.

Claim 36 (Original): A computer program product according to any one of Claims 28-35, wherein the second computer code device is further configured to communicate the log of the monitored data by Internet mail.